

# ENVIRONMENTAL

## PREVENTIVE MAINTENANCE

BASF Corporation  
TITLE: RIVERVIEW PROPERTY

PREPARED BY: GERLACH

DATE ISSUED/REVISED: 04/03/95  
CURRENT WORK ORDER: 1063170

CC No.: 30580  
INSPECTION FREQUENCY: SEMI-ANNUALLY  
INSPECTION DUE 11/14/97

Folder No.: 1490M6.RTE  
SHEET 1  
Eq Code: 3058000-00

### PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

FOLDER NUMBER: 1490M6.RTE  
Inspection Date: 11-3-97

Agency Report Date: \_\_\_\_\_

AGENCY REPORT IS DUE WITHIN TWO WEEKS AFTER INSPECTION.

UPON REVIEW AND APPROVAL, RETURN THIS PM TO ECOLOGY FOR PREPARATION OF PRINTED REPORT AND FILING BY SITE ENGINEER.  
This PM requires the inspector to look at many things and walk or drive over a large area. The inspector should completely prior to making the inspection so that no wasted effort has to occur "Going Back".

#### I. Inspect entire fence.

- A. Fence must be completely intact, including 3 strands of barbed wire on top. All gates must be locked.

I.A. Make a list of any broken barbed wire, broken or deformed fence, bent or damaged fence posts or rails, gate hinges, locks, etc.

Observation: NONE

Response: \_\_\_\_\_

- B. Inspect signs on fence. Signs must face outward from property. The signs must be spaced at 100' intervals on all four sides of the property. The signs must be in good condition with 1-1/2" high letters.

I.B. 1. Are signs spaced every 100 ft.? Yes X No \_\_\_\_\_

2. Make a list of missing, rusted, bent, illegible, etc., signs.

WARNING  
KEEP OUT

MANAGED INDUSTRIAL WASTE DISPOSAL AREA

Observation: NONE

Response: \_\_\_\_\_

#### II. Inspect vegetation from Jefferson/to the water and from the common property line with Firestone to the municipal ramp.

- A. Look for any "bare" areas (spots or areas which do not have plant life growing).

II.A. List "bare" areas. Describe size and location of bare spot.

Observation: NONE

Response: \_\_\_\_\_

US EPA RECORDS CENTER REGION 5



406832

# ENVIRONMENTAL

FOLDER NO.: 1490M6.RTE

SHEET 2

- B. Measure the height of the vegetation. As the vegetation is measured, look for areas where growth is stunted.

Observation:

Response:

- II.B. List the "average" height of the vegetation.

Free standing brown water over large area by  
East fence line, otherwise no grass is about 5 inch.

Will build up in spring '04/98 JK

- III. Inspect the shoreline for stability.

Observation:

Response:

- III. List any shoreline erosion, washing, other deterioration or accumulation of debris.

ALLOT OF DEAD PATCHES AT EAST END FENCE  
line to shore, near vegetation.

Will Reseed in Spring 1998 JK

- IV. Review the integrity of the compacted clay cover.

- A. Inspect the entire area for the physical condition of the surface.

Observation:

Response:

- IV.A. List any erosion, standing pools of water, weathering, change in drainage patterns, etc.

- B. Look for any deep-rooted vegetation (trees or other plant life which might or does have tap roots). Any vegetation which is taller than surrounding vegetation should be considered deep-rooted.

Observation:

Response:

- IV.B. List deep-rooted vegetation.

- V. Inspect the berm which is constructed along the common property line with Firestone. This berm is constructed to eliminate water flowing from the Firestone property onto the site.

- V. Is the berm at least 6 inches above the level of the Firestone property at the property line?

Yes X No     

Is there any evidence of water flowing from the Firestone property onto the site?

Yes      No X

# ENVIRONMENTAL

FOLDER NO.: 1490M6.RTE

SHEET 3

VI. Inspect the two concrete drainage ditches on the site, one through the center and one at the northeast corner.

A. Look at overall condition of the ditches.

Observation: \_\_\_\_\_

Response: \_\_\_\_\_

B. There are thirty (30) joints in the center ditch. Note condition of each joint. Is joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

Joint 2:  
Observation: \_\_\_\_\_

Response: \_\_\_\_\_

Joint 4:  
Observation: \_\_\_\_\_

Response: \_\_\_\_\_

Joint 6:  
Observation: \_\_\_\_\_

Response: \_\_\_\_\_

Joint 8:  
Observation: \_\_\_\_\_

Response: \_\_\_\_\_

Joint 10:  
Observation: \_\_\_\_\_

Response: \_\_\_\_\_

VI.A. List any cracks in the concrete, leaking through the cracks, accumulated debris, standing water, etc.

VI.B. List condition of each joint.

Joint 1:  
Observation: \_\_\_\_\_

Response: \_\_\_\_\_

Joint 3:  
Observation: \_\_\_\_\_

Response: \_\_\_\_\_

Joint 5:  
Observation: \_\_\_\_\_

Response: \_\_\_\_\_

Joint 7:  
Observation: \_\_\_\_\_

Response: \_\_\_\_\_

Joint 9:  
Observation: SEVERE spalling of cement  
Between 8 & 9.

Response: \_\_\_\_\_

Will Repair by 3/98 JB

Joint 11:  
Observation: \_\_\_\_\_

Response: \_\_\_\_\_

# ENVIRONMENTAL

FOLDER NO.: 1490M6.RTE

SHEET 4

VI. B. (Cont'd.) There are thirty (30) joints in the center ditch. Note condition of each joint. Is joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

Joint 13:  
Observation: Major Debris, sticks + Garbage  
blocking flow  
Response: Will clean out 11/30/97 JK

Joint 15:  
Observation: \_\_\_\_\_  
Response: \_\_\_\_\_

Joint 17:  
Observation: \_\_\_\_\_  
Response: \_\_\_\_\_

Joint 19:  
Observation: Major Debris, Dead vegetation  
ON Top of the joint.  
Response: clean out 11/97 JK

Joint 21:  
Observation: \_\_\_\_\_  
Response: \_\_\_\_\_

Joint 23:  
Observation: \_\_\_\_\_  
Response: \_\_\_\_\_

Joint 25:  
Observation: \_\_\_\_\_  
Response: \_\_\_\_\_

VI.B. List condition of each joint.

Joint 12:  
Observation: Major Debris, sticks + Garbage  
blocking flow.  
Response: \_\_\_\_\_

Joint 14:  
Observation: \_\_\_\_\_  
Response: \_\_\_\_\_

Joint 16:  
Observation: \_\_\_\_\_  
Response: \_\_\_\_\_

Joint 18:  
Observation: \_\_\_\_\_  
Response: \_\_\_\_\_

Joint 20:  
Observation: \_\_\_\_\_  
Response: \_\_\_\_\_

Joint 22:  
Observation: sticks + Debris  
Response: clean out 11/97 JK

Joint 24:  
Observation: \_\_\_\_\_  
Response: \_\_\_\_\_

Joint 26:  
Observation: \_\_\_\_\_  
Response: \_\_\_\_\_

# ENVIRONMENTAL

FOLDER NO.: 1490M6.RTE

SHEET 5

VI. B. (Cont'd.) There are thirty (30) joints in the center ditch. Note condition of each joint. Is joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

Joint 27:  
Observation: \_\_\_\_\_

Response: \_\_\_\_\_

Joint 29:  
Observation: Debris, sticks, Blocking Flow

Response: \_\_\_\_\_

Clear out 11/30 JK

There are four (4) joints in the north ditch. Note condition of each joint. Is joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

Joint B:  
Observation: \_\_\_\_\_

Response: \_\_\_\_\_

VII. Inspect each of the nine (9) monitoring wells for integrity.

VI.B. List condition of each joint.

Joint 28:  
Observation: minor Debris, sticks & grass  
Blocking Flow  
Response: \_\_\_\_\_

Joint 30:  
Observation: \_\_\_\_\_

Response: \_\_\_\_\_

Joint A:  
Observation: \_\_\_\_\_

Response: \_\_\_\_\_

Joint C:  
Observation: \_\_\_\_\_

Response: \_\_\_\_\_

Joint D:  
Observation: Debris, Causing Blockage

Response: \_\_\_\_\_  
Clear out 11/30 JK

VII. List any problems with the wells.  
Observation: Well cap, 1.5 ft off freely  
lock is doing nothing.

Response: \_\_\_\_\_

Repair 12/52 JK

# ENVIRONMENTAL

FOLDER NO.: 1490M6.RTE

SHEET 6

Upon completion of this PM, it must be routed for signature/comments as indicated on page 1.

Inspected by: Jeffrey D. Garner

Date Inspected: 11-3-97

PM Reviewed and Response initiated by: John F. Grubel

Date: 11-5-97

\*\*\*\*\* END \*\*\*\*\* END \*\*\*\*\* END \*\*\*\*\* END \*\*\*\*\* END \*\*\*\*\* END \*\*\*\*\* END \*\*\*\*\*

## ENVIRONMENTAL

ENVIRONMENTAL  
PREVENTIVE MAINTENANCE

## ENVIRONMENTAL

BASF Corporation

TITLE: Riverview Property

SSO NO.: 110005 CC No.: 3058

INSPECTION FREQUENCY: 3 Months

INSPECTION DUE DATE: 3/31/88

Date Issued: 8/85

Date Revised: 11/85 - LTB

Folder No.: 1490M3.ENV

Sheet 1 of 9

EQ. CODE: 00-00

## PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

THIS PM REQUIRES THE INSPECTOR TO LOOK AT MANY THINGS AND WALK OR DRIVE OVER A LARGE AREA. THE INSPECTOR SHOULD READ THIS PM COMPLETELY PRIOR TO MAKING THE INSPECTION SO THAT NO WASTED EFFORT HAS TO OCCUR "GOING BACK".

I. Inspect entire fence.

A. Fence must be completely intact, including 3 strands of barbed wire on top. All gates must be locked.

I.A. Make a list of any broken barbed wire, broken or deformed fence, bent or damaged fence posts or rails, gate hinges, locks, etc.

E Gate Post - concrete heaved  
E Fence wash out 100' N of dit  
Both gate post and fence will be  
repaired by 4/30/88.

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## PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

- B. Inspect signs on fence. Signs must face outward from property. The signs must be spaced at 100' intervals on all four sides of the property. The signs must be in good condition with 1-1/2" high letters.

WARNING  
KEEP OUT  
MANAGED INDUSTRIAL WASTE DISPOSAL AREA

- I.B. 1. Are signs spaced every 100 ft.? Yes X No

2. Make a list of missing, rusted, bent, illegible, etc., signs.

All OK

- II. Inspect vegetation from Jefferson/to the water and from the common property line with Firestone to the municipal ramp.

- A. Look for any "bare" areas (spots or areas which do not have plant life growing).

- II.A. List "bare" areas. Describe size and location of bare spot.

Beside joints 3-4 and 11-14  
Bare spots will be seeded by  
4/30/88

- B. Measure the height of the vegetation. As the vegetation is measured, look for areas where growth is stunted.

- II.B. List the "average" height of the vegetation.

Pregrowth approx.. 4"



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TITLE: Riverview Property

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## PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

III. Inspect the shoreline for stability.

III. List any shoreline erosion,  
washing, other deteriora-  
tion or accumulation of  
debris.Debris and litter. Should be  
policed. Areas will be cleaned up  
by 4/15/88.

IV. Review the integrity of the compacted clay cover.

A. Inspect the entire area for the physical condition  
of the surface.IV.A. List any erosion, standing  
pools of water, weathering,  
change in drainage patterns,  
etc.Water standing near top on N cap.B. Look for any deep-rooted vegetation (trees or other  
plant life which might or does have tap roots). Any  
vegetation which is taller than surrounding vegetation  
should be considered deep-rooted.

IV.B. List deep-rooted vegetation.

None

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TITLE: Riverview Property

CC No.: 3058

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## PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

V. Inspect the berm which is constructed along the common property line with Firestone. This berm is constructed to eliminate water flowing from the Firestone property onto the site.

V. Is the berm at least 6 inches above the level of the Firestone property at the property line?

Yes X No     

Is there any evidence of water flowing from the Firestone property onto the site

Yes      No X

VI. Inspect the two concrete drainage ditches on the site, one through the center and one at the northeast corner.

VI.A. List any cracks in the concrete, leaking through the cracks, accumulated debris, standing water, etc.

A. Look at overall condition of the ditches.

Needs cleaning of dirt and debris.  
Ground water seeping over ditch  
between #3 and #4 joint. East of  
#30 being underwashed and holes and  
cracks present. Will be cleaned up  
by 4/7/88.

B. There are thirty (30) joints in the center ditch. Note condition of each joint. Is joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

VI.B. List condition of each joint

Joint 1: OKJoint 2: OK

Water was in the bottom of the trench flowing slowly.  
Small dams formed by dirt and debris.

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TITLE: Riverview Property

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## PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

VI. B. (Cont'd.) There are thirty 30) joints in the center ditch. Note condition of each joint. Is the joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

Joint 4: OKJoint 6: Tar strip loose - no  
evidence of seepage through joint.Joint 8: Tar strip loose - no  
evidence of seepage through  
joint.Joint 10: OKVI.B. List condition of each jointJoint 3: OKJoint 5: Tar strip loose. No  
evidence of seepage through joint.Joint 7: Caulking loose. No  
evidence of seepage through joint.Joint 9: Caulking loose. No  
evidence of seepage.Joint 11: OK

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TITLE: Riverview Property

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## PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

VI. B. (Cont'd.) There are thirty (30) joints in the center ditch. Note condition of each joint. Is joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

VI.B. List condition of each jointJoint 12: Caulking loose. No  
evidence of seepage down sides.Joint 13: Caulking loose. No  
evidence of seepage down sides.Joint 14: Caulking loose. No  
evidence of seepage down sides.Joint 15: OKJoint 16: OKJoint 17: Caulking loose. No  
evidence of seepage down sides.Joint 18: OKJoint 19: Caulking loose. No  
evidence of seepage down sides.Joint 20: OK

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TITLE: Riverview Property

CC No.: 3058

## PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

VI. B. (Cont'd.) There are thirty (30) joints in the center ditch. Note condition of each joint. Is joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

Joint 22: OKJoint 24: OK

Joint 26: Caulking loose will be  
inspected and corrected by 4/30/88.  
No evidence of seepage.

Joint 28: Caulking loose. Will be  
inspected and corrected by 4/30/88.  
No evidence of seepage.

VI.B. List condition of each jointJoint 21: OK

Joint 23: Caulking loose. Will be  
inspected and corrected by 4/30/88  
No evidence of seepage.

Joint 25: OK

Joint 27: Caulking loose. Will be  
inspected and corrected by 4/30/88  
No evidence of seepage.

Joint 29: Caulking loose. Will be  
inspected and corrected by 4/30/88  
No evidence of seepage.

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TITLE: Riverview Property

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## PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

VI. B. (Cont'd.) There are thirty (30) joints in the center ditch. Note condition of each joint. Is joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

There are four (4) joints in the north ditch. Note condition of each joint. Is joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

Joint B: OKVI.B. List condition of each joint

Joint 30: Needs caulking, missing  
Will be inspected and corrected by  
4/30/88.

Joint A: OKJoint C: OKJoint D: OK

ENVIRONMENTAL

ENVIRONMENTAL

ENVIRONMENTAL

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REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

TITLE: Riverview Property

CC No.: 3058

PROCEDURE

VII. Inspect each of the nine (9) monitoring wells for  
integrity.

VII. List any problems with the  
wells.

Collar on well "L" needs gluing  
Will be repaired by 4/30/88.

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Inspected By: Lyman A. Anderson

Date Inspected: March 29, 1988

ENVIRONMENTAL

ENVIRONMENTAL

ENVIRONMENTAL

CERTIFIED MAIL - RETURN RECEIPT  
REQUESTED

EPA: P 803 601 572  
MDNR: P 803 601 571

C. William Axce  
General Manager

April 5, 1988

Ms. Bonnie Eleder - 5HE-12  
Remedial Project Manager  
CERCLA Enforcement Section  
U. S. Environmental Protection Agency  
230 S. Dearborn Street  
Chicago, IL 60604

Director  
Michigan Dept. Natural Resources  
P. O. Box 30028  
530 W. Allegan Street  
Lansing, MI 48909

To Whom It May Concern:

Subject: Consent Decree Action 80-73699

I have attached copy of the first 1988 Quarterly inspection of  
the Riverview site.

If there are any questions, please advise.

Yours very truly,



C. W. Axce

mh  
attachment

cc: J. Shauver, MDNR, Lansing  
V. Loselle, MDNR, Northville

RECEIVED  
APR 11 1988  
U.S. EPA, REGION V  
WASTE MANAGEMENT DIVISION  
OFFICE OF THE DIRECTOR



ENVIRONMENTAL

ENVIRONMENTAL

ENVIRONMENTAL

PREVENTIVE MAINTENANCE

BASF Wyandotte Corporation

Date Issued: 8/85

TITLE: Riverview Property

Date Revised: 11/85 - LTB

SSO NO.: 110005 CC No: 3058

Folder No: 1490

INSPECTION FREQUENCY: 3 Months

Sheet 1 of 9

INSPECTION DUE DATE: March 31, 1986

EQ CODE: 00-00

PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

THIS PM REQUIRES THE INSPECTOR TO LOOK AT MANY THINGS AND WALK OR DRIVE OVER A LARGE AREA THE INSPECTOR SHOULD READ THIS PM COMPLETELY PRIOR TO MAKING THE INSPECTION SO THAT NO WASTED EFFORT HAS TO OCCUR "GOING BACK".

I Inspect entire fence

- A. Fence must be completely intact, including 3 strands of barbed wire on top All gates must be locked.

- I.A Make a list of any broken barbed wire, broken or deformed fence, bent or damaged fence posts or rails, gate hinges, locks, etc

All O K

RECEIVED  
EPA 15 1986  
U.S. EPA REGION V  
WASTE MANAGEMENT DIVISION  
HARRIS WASTE EMERGENCY TEAM

ENVIRONMENTAL

ENVIRONMENTAL

ENVIRONMENTAL

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TITLE: Riverview Property

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## PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

- B. Inspect signs on fence. Signs must face outward from property. The signs must be spaced at 100' intervals on all four sides of the property. The signs must be in good condition with 1-1/2" high letters

WARNING  
KEEP OUT  
MANAGED INDUSTRIAL WASTE DISPOSAL AREA

- I.B. 1. Are signs spaced every 100 ft.? Yes X No \_\_\_

2. Make a list of missing, rusted, bent, illegible, etc., signs

None

- II. Inspect vegetation from Jefferson/to the water and from the common property line with Firestone to the municipal ramp

- A. Look for any "bare" areas (spots or areas which do not have plant life growing)

- II.A. List "bare" areas. Describe size and location of bare spot.

Several wheel ruts, approx 300 ft. in length, directly east of Main Gate and near monitor wells - to be seeded in early April

- B. Measure the height of the vegetation. As the vegetation is measured, look for areas where growth is stunted

- II.B. List the "average" height of the vegetation.

Vegetation is dormant. 3"-6" in height. Growth has not yet begun

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## PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

III. Inspect the shoreline for stability

III. List any shoreline erosion  
washing, other deteriora-  
tion or accumulation of  
debris.No shoreline erosion Debris  
cleaned up 3/27/86

IV Review the integrity of the compacted clay cover

A Inspect the entire area for the physical condition  
of the surfaceIV.A. List any erosion, standing  
pools of water, weathering,  
change in drainage patterns,  
etcSurface condition of clay cap  
shows no signs of erosion or  
water pools; drainage pattern  
has not changedB Look for any deep-rooted vegetation (trees or other  
plant life which might or does have tap roots) Any  
vegetation which is taller than surrounding vegetation  
should be considered deep-rooted

IV.B. List deep-rooted vegetation

Several small dia (1/8-1/4")  
deep-rooted plants, not in  
clay cap, are in dormant stage in  
S E and S W quadrant of site  
and will be removed as weather  
permits (dry ground) and areas  
re-seeded as required

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Sheet 4 of 9

## PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

V. Inspect the berm which is constructed along the common property line with Firestone. This berm is constructed to eliminate water flowing from the Firestone property onto the site.

V. Is the berm at least 6 inches above the level of the Firestone property at the property line?

Yes X No ---

Is there any evidence of water flowing from the Firestone property onto the site?

Yes --- No X

VI. Inspect the two concrete drainage ditches on the site, one through the center and one at the northeast corner.

VI.A. List any cracks in the concrete, leaking through the cracks, accumulated debris, standing water, etc.

No cracks in concrete. Approx 1/3 of trench joints are covered with water due to high river level and wind. All debris was removed from trench 3/27/86.

A. Look at overall condition of the ditches.

B. There are thirty (30) joints in the center ditch. Note condition of each joint. Is joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

VI.B. List condition of each joint.

Joint 1: O K and dry

Joint 2: O K and dry

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## PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

VI B. (Cont'd) There are thirty (30) joints in the center ditch. Note condition of each joint. Is the joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

Joint 4: O K and dry

Joint 6: O K - off color  
standing water in trench - approx  
1/3 of joint is covered with off  
color waterJoint 8: Visible joint O K -  
Approx. 1/3 of joint at bottom  
of trench is covered with off  
color waterJoint 10: Rubber chaulk repair  
in joint cavity is lifting - to  
be repaired by Corp. Eng'g 2nd  
quarter 1986. 1/3 of joint under  
off color waterVI.B. List condition of each jointJoint 3: Rubber chaulk repair  
in joint cavity is lifting -  
minor seepage thru south side  
side of joint. To be repaired  
by Corp. Eng'g 2nd qtr. 1986 -  
dry

Joint 5: O K and dry

Joint 7: Visible joint O K  
Approx. 1/3 of joint at  
bottom of trench is covered  
with off color waterJoint 9: O K - dry  
Concrete trench wall stained  
by run-off water in 4-5  
places. 1/3 of joint under  
off color waterJoint 11: Visible joint O K  
Approx. 1/3 of joint covered  
with off color water

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TITLE: Riverview Property

CC No. 3058

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## PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

VI B. (Cont'd) There are thirty (30) joints in the center ditch. Note condition of each joint. Is joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

Joint 13: Visible joint O K. Approx 1/2 of joint is under water due to high river level preventing trench to drain. Some over the top of trench run-off water visible.

Joint 15: Rubber chaulk repair in joint is leaking - to be repaired by Corp. Eng'g in 2nd quarter of 1986. Approx 1/2 of joint is under water due to high river level.

Joint 17: Visible joint O K. Approx 2/3 of joint is under off color water. High river level prevents drainage.

Joint 19: Joint is leaking on S. side of trench. Approx 2/3 of joint under off color water - to be repaired by Corp. Eng'g in 2nd qtr. of 1986. High river level prevents drainage.

VI B. List condition of each joint.

Joint 12: Visible joint O K. - Approx 1/2 under off color water - run-off water running over top of trench in several locations has stained concrete.

Joint 14: Visible joint O K. Approx 1/2 of joint is under water due to high river level. 2 repaired cracks partially under off color water - visible repairs O K.

Joint 16: Approx 1/2 of joint is under water due to high river level. Rubber chaulk repair in joint is leaking. To be repaired by Corp. Eng'g in 2nd qtr. of 1986. Repaired crack in S. side of trench OK.

Joint 18: Visible joint OK. 7/8 of joint under off color water. High river level prevents drainage.

Joint 20: Visible joint OK. Approx 2/3 of joint under off color water. High river level prevents drainage.

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TITLE: Riverview Property

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## PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

VI B. (Cont'd.) There are thirty (30) joints in the center ditch. Note condition of each joint. Is joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

Joint 22: Visible joint O K Approx 2/3 of joint covered with off color water High river level prevents drainage

Joint 24: Visible joint O K Approx 1/3 of joint covered w/off color water High river level prevents drainage

Joint 26: Approx 1/2 of rubber chaulk joint repair is loose Approx 1/3 of joint covered w/off color water - to be repaired by Corp Eng'g in 2nd qtr of '86 High river level prevents drainage

Joint 28: Approx 1/2 of joint is under river water Joint rubber chaulk is loose - to be repaired by Corp Eng'g in 2nd qtr '86 High river level prevents drainage

VI B. List condition of each joint

Joint 21: Visible joint O K Approx 2/3 of joint is covered with off color water High river level prevents drainage

Joint 23: Joint leaking on S side of trench - to be repaired by Corp Eng'g in 2nd qtr of 1986 Joint approx 1/2 covered w/off color water High river level prevents drainage

Joint 25: Visible joint O K Approx 1/2 covered w/off color water High river level prevents drainage

Joint 27: Approx 3' of rubber chaulk joint repair is out of cavity - to be repaired by Corp Eng'g in 2nd qtr of '86 Approx 1/3 of joint covered w/river water High river level prevents drainage

Joint 29: Visible joint O K Approx 2/3 of joint covered w/river water High river level prevents drainage

Folder No.: 1490

TITLE: Riverview Property

CC No.: 3058

Sheet 8 of 9

## PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

VI. B (Cont'd.) There are thirty (30) joints in the center ditch. Note condition of each joint. Is joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

There are four (4) joints in the north ditch. Note condition of each joint. Is joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

Joint B: O K Good condition - dry

VI. B. List condition of each joint

Joint 30: Totally covered w/ river water. Rubber chaulk joint repair loose - to be repaired by Corp. Eng'd in 2nd qtr '86. High river level prevents drainage.

Joint A: O K Good condition - dry

Joint C: O K Good condition - dry

Joint D: O K Good condition - dry



ENVIRONMENTAL

ENVIRONMENTAL

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TITLE: Riverview Property

CC No : 3058

Sheet 9 of 9

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PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

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VII. Inspect each of the nine (9) monitoring wells for  
integrity.

VII. List any problems with the  
wells.

No problems - all wells locked

Inspected by: D. J. Savage and W. Chavis

Date Inspected: 3/25/86

Reinspected: 4/01/86

ENVIRONMENTAL

ENVIRONMENTAL

ENVIRONMENTAL

BASF CORPORATION CHEMICALS DIVISION  
1609 Biddle Avenue, Wyandotte, Michigan 48192

Name of Sender:

Cost Center No:

**BASF**

MS. BONNIE L. ELEDER - 5HE-15  
REMEDIAL PROJECT MANAGER  
EPCRA ENFORCEMENT SECTION  
U. S. ENVIRONMENTAL PROTECTION AGENCY  
30 S. DEARBORN ST.  
CHICAGO, IL 60604



ENVIRONMENTAL

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PREVENTIVE MAINTENANCE

BASF Wyandotte Corporation

TITLE: Riverview Property

SSO NO.: 110005 CC No.: 3058

INSPECTION FREQUENCY: 3 Months

INSPECTION DUE DATE: December 31, 1985

Date Issued: 8/85

Date Revised: 11/85 - LTB

Folder No.: 1490

Sheet 1 of 9

EQ. CODE: 00-00

PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

THIS PM REQUIRES THE INSPECTOR TO LOOK AT MANY THINGS AND WALK OR DRIVE OVER A LARGE AREA. THE INSPECTOR SHOULD READ THIS PM COMPLETELY PRIOR TO MAKING THE INSPECTION SO THAT NO WASTED EFFORT HAS TO OCCUR "GOING BACK".

- 1. Inspect entire fence.
  - A. Fence must be completely intact, including 3 strands of barbed wire on top. All gates must be locked.

- I.A. Make a list of any broken barbed wire, broken or deformed fence, bent or damaged fence posts or rails, gate hinges, locks, etc.

The security of the fence was not broken during the review period. Cosmetic repairs along the north property line were completed at four (4) locations.

Folder No.: 1490

TITLE: Riverview Property

CC No.: 3058

Sheet 2 of 9

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

## PROCEDURE

- B. Inspect signs on fence. Signs must face outward from property. The signs must be spaced at 100' intervals on all four sides of the property. The signs must be in good condition with 1-1/2" high letters.

WARNING  
KEEP OUT  
MANAGED INDUSTRIAL WASTE DISPOSAL AREA

- I.B. 1. Are signs spaced every 100 ft.? Yes\_\_\_ No\_X
2. Make a list of missing, rusted, bent, illegible, etc., signs

One sign missing .0' north of the south gate on west property line. This sign was replaced on 2-20-86.

- II. Inspect vegetation from Jefferson/to the water and from the common property line with Firestone to the municipal ramp.

- A. Look for any "bare" areas (spots or areas which do not have plant life growing).

- II.A. List "bare" areas. Describe size and location of bare spot.

One small bare spot, approx. 3' x 5', almost center of the property, which was caused by vehicle traffic & lawn mowing, will be reseeded Spring '86.

- B. Measure the height of the vegetation. As the vegetation is measured, look for areas where growth is stunted.

- II.B. List the "average" height of the vegetation.

Average height 4"-6". Growth does not appear to be stunted. Some areas on the clay cap (north) appear greener.

TITLE: Riverview Property

CC No.: 3058

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Sheet 3 of 9

PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

III. Inspect the shoreline for stability.

III. List any shoreline erosion, washing, other deterioration or accumulation of debris.

No shoreline erosion. Several tree trunks froze to shoreline will be removed with the thaw.

IV. Review the integrity of the compacted clay cover.

IV.A. List any erosion, standing pools of water, weathering, change in drainage patterns, etc.

No erosions, no standing pools of water. 2-20-86

IV.B. List deep-rooted vegetation.

Several clumps of deep-rooted vegetation on the S.W. corner not on the clay cap. These will be hand pulled in Spring to stop possible seeding.

- A. Inspect the entire area for the physical condition of the surface.
- B. Look for any deep-rooted vegetation (trees or other plant life which might or does have tap roots). Any vegetation which is taller than surrounding vegetation should be considered deep-rooted.

TITLE: Riverview Property

CC No.: 3058

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PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

V. Inspect the berm which is constructed along the common property line with Firestone. This berm is constructed to eliminate water flowing from the Firestone property onto the site

V. Is the berm at least 6 inches above the level of the Firestone property at the property line?  
Yes X No ---

Is there any evidence of water flowing from the Firestone property onto the site?  
Yes --- No X

VI. Inspect the two concrete drainage ditches on the site, one through the center and one at the northeast corner.

VI.A. List any cracks in the concrete, leaking through the cracks, accumulated debris, standing water, etc.

Debris in ditches was removed on 2-20-86.

A. Look at overall condition of the ditches.

B. There are thirty (30) joints in the center ditch. Note condition of each joint. Is joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

VI.B. List condition of each joint.  
Joint 1: Joint O K. What can be seen - snow & ice covered

Joint 2: Joint O K. What can be seen - snow & ice covered.

TITLE: Riverview Property

CC No.: 3058

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Sheet 5 of 9

PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

VI. B. (Cont'd.) There are thirty (30) joints in the center ditch. Note condition of each joint. Is the joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

Joint 4: Ice & snow covered.

Joint 6: Ice and snow covered.

Joint 8: Ice and snow covered.

Joint 10: Ice and snow covered.

VI.B. List condition of each joint

Joint 3: Ice & snow covered.

Joint 5: Ice & snow covered.

Joint 7: Ice & snow covered.

Joint 9: Ice & snow covered.

Joint 11: Ice & snow covered.  
Discolored ice top edge of ditch.

TITLE: Riverview Property

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Sheet 6 of 9

PROCEDURE

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ITEMS REPAIRED OR REQUIRED

VI. B. (Cont'd.) There are thirty (30) joints in the center ditch. Note condition of each joint. Is joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

VI.B. List condition of each joint

Joint 13: Ice and snow covered

Joint 14: Ice & snow covered.

Joint 15: Ice and snow covered

Joint 16: Ice & snow covered.

Joint 17: Ice and snow covered.

Joint 18: Ice & snow covered

Joint 19: Ice and snow covered.

Joint 20: Ice & snow covered.



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TITLE: Riverview Property

CC No.: 3058

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PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

VI. B. (Cont'd.) There are thirty (30) joints in the center ditch. Note condition of each joint. Is joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

VI.B. List condition of each joint

Joint 21: Ice & snow covered.

Joint 22: Ice and snow covered.

Joint 23: Ice & snow covered.

Joint 24: Ice and snow covered.

Joint 25: Ice & snow covered.

Joint 26: Ice and snow covered.

Joint 27: Ice & snow covered.

Joint 28: Ice and snow covered.

Joint 29: Ice & snow covered.

TITLE: Riverview Property

CC No.: 3058

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PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

VI. B. (Cont'd.) There are thirty (30) joints in the center ditch. Note condition of each joint. Is joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

VI.B. List condition of each joint  
Joint 30: Joint O.K.  
Standing water from river,  
clear.

There are four (4) joints in the north ditch. Note condition of each joint. Is joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

Joint A: Joint O.K. No  
standing water.

Joint B: Joint is O.K. No  
standing water.

Joint C: Joint O.K. No  
standing water

Joint D: Joint O.K. No  
standing water

Joints scheduled for resealing (Corporate Eng'g/Rod Brandau) Spring '86

ENVIRONMENTAL

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PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

VII. Inspect each of the ten (10) monitoring wells for  
integrity.

VII. List any problems with the  
wells.

Ten Wells inspected - one  
unnumbered (S.E. corner -  
no #1).

Inspected by: P.C. DeLisle, D.J. Savano, A.W. LaPointe  
(3 Inspectors)

Date Inspected: 12/31/35  
Reinspected: 02/24/36

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## PREVENTIVE MAINTENANCE

BASF Wyandotte Corporation

Date Issued: 8/85

TITLE: Riverview Property

ROUTE Upon Completion To:

Date Revised:

550 NO.: 110005 CC No.: 3058

Scheduler\_\_\_\_\_

Maint.Supt.\_\_\_\_\_

Folder No.: 1490

INSPECTION FREQUENCY: 3 Months

Site Engr.\_\_\_\_\_

Site Environ.\_\_\_\_\_

Sheet 1 of 4

INSPECTION DUE DATE: September 30, 1985

Site Gen.Mgr.\_\_\_\_\_

EQ. CODE: 00-00

UPON REVIEW AND APPROVAL, RETURN THIS PM TO  
ENGINEERING FOR PREPARATION OF PRINTED REPORT  
AND FILING OF THIS PM.

## PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

THIS PM REQUIRES THE INSPECTOR TO LOOK AT MANY THINGS AND WALK  
OR DRIVE OVER A LARGE AREA. THE INSPECTOR SHOULD READ THIS PM  
COMPLETELY PRIOR TO MAKING THE INSPECTION SO THAT NO WASTED  
EFFORT HAS TO OCCUR "GOING BACK".

## I. Inspect entire fence.

I.A. Make a list of any broken  
barbed wire, broken or de-  
formed fence, bent or dam-  
aged fence posts or rails,  
gate hinges, locks, etc.

- ✓ A. Fence must be completely intact, including 3 strands of  
barbed wire on top. All gates must be locked.

1. All gates are locked. Barbed wire along Firestone property needs to be replaced or repaired. General Sections missing.
2. Top section of pipe on Firestone fence line is broken.
3. Bottom section of fence next to south gate on Jefferson pulled apart.
4. Approx. 36 ft. of fence along Grosse Ile Toll Bridge Parkway was cut away from the fence posts.
5. One section of fence near the public access was snagged.

Industrial Fence and Landscaping Company repairing fencing. To be completed 9-19-85.

ENVIRONMENTAL

ENVIRONMENTAL

ENVIRONMENTAL

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TITLE: Riverview Property

CC No.: 3058

Sheet 2 of 4

## PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

- ✓ B. Inspect signs on fence. Signs must face outward from property. The signs must be spaced at 100' intervals on all four sides of the property. The signs must be in good condition with 1-1/2" high letters.

WARNING  
KEEP OUT  
MANAGED INDUSTRIAL WASTE DISPOSAL AREA

I.B. 1. Are signs spaced every 100 ft.? Yes X No     

2. Make a list of missing, rusted, bent, illegible, etc., signs.

None.  
All signs are good - none damaged or missing.

- ✓ II. Inspect vegetation from Jefferson to the water and from the common property line with Firestone to the municipal ramp.

- A. Look for any "bare" areas (spots or areas which do not have plant life growing).

1. Bare area 11' x 4', about 100' north of center ditch - west end.
2. Three (3) bare areas south of south ditch - near center.
3. Bare areas along center ditch.
4. Several bare areas along northeast ditch.

II.A. List "bare" areas.

- B. Look for any deep-rooted vegetation (trees or other plant life which might or does have tap roots). Any vegetation which is taller than surrounding vegetation should be considered deep-rooted.

1. Tree weeds throughout the area.
2. Heavy vegetation growth along fence area, all the way around.
  - a. Deep-rooted shrubs, climbing ivy, etc.
3. Thick, heavy weeds along river frontage. Lee's General Maintenance removing the growth.

II.B. List deep-rooted vegetation

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TITLE: Riverview Property

CC No.: 9058

Sheet 3 of 4

## PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

C. Measure the height of the vegetation. As the vegetation is measured, look for areas where growth is stunted.

4" - 6" average

The north area of the property (north of center drain) is sparse. Terrain is very rough and vegetation is weak.

II.C. List the "average" height of the vegetation.

III. ✓ Inspect the shoreline for stability.

There is not an erosion problem along the shoreline, but there is a problem of debris accumulation, mostly seaweed, driftwood and several huge tree trunks. Required a large chainsaw to cut them up. There was a thick brush growth also. Lee's Maintenance is removing all debris and unwanted growth.

III. List any shoreline erosion, washing, other deterioration or accumulation of debris.

IV. ✓ Inspect the entire area for the physical condition of the surface.

In general, most of the area north of the center drain has bare spots and sparse growth. Terrain very difficult to drive or walk on. The entire area was heavily littered. There was also 1" - 2" of dirt accumulation in drainage ditch, with vegetation starting to grow. Lee's Maintenance to clean out drainage ditch.

IV. List any erosion, standing pools of water, weathering, change in drainage patterns, etc.

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TITLE: Riverview Property

CC No.: 3058

Sheet 4 of 4

## PROCEDURE

REPORT HERE - FINDINGS &  
ITEMS REPAIRED OR REQUIRED

- ✓ V. Inspect the berm which is constructed along the common property line with Firestone. This berm is constructed to eliminate water flowing from the Firestone property onto the site.

The berm is in excellent condition and greater than 6" higher than Firestone's property.

- ✓ VI. Inspect the two concrete drainage ditches on the site, one through the center and one at the northeast corner.

Standing water in the center ditch, about 250 ft. from the west edge. All the ditches are in excellent condition. Three (3) small cracks from the sides to the center area are slated for I.D. There is a heavy accumulation of seaweed and debris washed up from the river, as much as 200 ft. back into the property.

- ✓ VII. Inspect each of the nine (9) monitoring wells for integrity.

Nine (9) monitoring wells are in excellent condition. All are padlocked and clearly visible.

- V. Is the berm at least 6 inches above the level of the Firestone property at the property line?

Yes X No    

Is there any evidence of water flowing from the Firestone property onto the site?

Yes     No X

- VI. List any cracks in the concrete, leaking through the joints, accumulated debris and other irregularities.

- VII. List any problems with the wells.

Upon completion of this PM, it must be routed for signature/comments as indicated on page 1.

Inspected by: G. Tom BallitoDate inspected: Sept. 18, 1985

VI. B. (Cont'd.) There are thirty (30) joints in the center ditch. Note condition of each joint. Is joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

Joint 27: crack between 27 & 26

have spot 10' x 4' S side

Joint 29: \_\_\_\_\_

There are four (4) joints in the north ditch. Note condition of each joint. Is joint in place or is it protruding above the surface of the concrete? Is the joint leaking? If there is standing water at the joint, is it clear or off color?

Joint B: \_\_\_\_\_

VII. Inspect each of the nine (9) monitoring wells for integrity.

VI.B. List condition of each joint.

Joint 28: \_\_\_\_\_

Joint 30: \_\_\_\_\_

Joint A: \_\_\_\_\_

Joint C: cracked

Joint D: cracked

VII. List any problems with the wells.

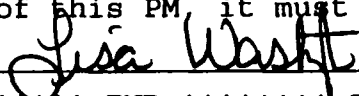


FOLDER NO.: 1490M3.RTE

SHEET 6

Upon completion of this PM, it must be routed for signature/comments as indicated on page 1.

Inspected by:



Date Inspected:

6-3-94

\*\*\*\*\* END \*\*\*\*\* END \*\*\*\*\* END \*\*\*\*\* END \*\*\*\*\* END \*\*\*\*\* END \*\*\*\*\* END \*\*\*\*\*

**CERTIFIED MAIL - RETURN RECEIPT REQUESTED**

**USEPA: P 254 184 844**

**MDEQ: P 254 184 845**

December 2, 1997

Mr. Duane Heaton  
Remedial Project Manager  
CERCLA Enforcement Section  
U.S. Environmental Protection Agency  
230 South Dearborn Street  
Chicago, Illinois 60604

Mr. Oladipo Oyinsan, Supervisor  
Michigan Department of Environmental Quality  
38980 Seven Mile Road  
Livonia, Michigan 48152-1006

Subject: BASF Corporation Riverview Site Inspection Report  
Riverview, Michigan

Dear Sirs:

Please find enclosed the Fall inspection report for the BASF Corporation Riverview Site. Submittal of this report is required by Consent Decree No. 80-73699 of July 1984.

Please feel free to call me at 313-246-6209 with any questions. After January 1, 1998, the telephone number will change to 734-324-6209.

Sincerely,



Thomas F. McGourty  
Manager, Quality and Ecology Services

Enclosure

cc: J. Gerlach  
J. Lanigan

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CERTIFIED

P 254 184 844

MAIL

DEC 0 9 97

3.00

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U.S. POSTAGE

SUPERFUND RECORDS CENTER  
SMR-7J

**BASF Corporation**

1609 Biddle Avenue, Wyandotte, Michigan 48192

Cost Center No.:

Sender:

G-17J

**BASF**

Mr. Duane Heaton  
Remedial Project Manager  
CERCLA Enforcement Section  
U.S. Environmental Protection Agency  
230 S. Dearborn Street  
Chicago, IL 60604

FORM 5